

DERWENT-ACC-NO: 1980-75856C

DERWENT-WEEK: 198043

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TITLE: Scratch resistant coating compsn - comprises hydrolysis prod. of epoxy-contg. silane cpds., aluminium chelate, ligand cpds. and organo silicon cpds. and/or epoxy cpds.

PATENT-ASSIGNEE: TORAY IND INC[TORA]

PRIORITY-DATA: 1979JP-0023388 (March 2, 1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 55116765 A	September 8, 1980	N/A	000	N/A
JP 87021030 B	May 11, 1987	N/A	000	N/A

INT-CL_(IPC): C08J007/04; C08L083/04 ; C09D003/82 ; G02B001/10

ABSTRACTED-PUB-NO: JP55116765A

BASIC-ABSTRACT: The compsn. contains (A) hydrolysis prod. of silane cpds. contg. ≥ 1 epoxy gp. and > 2 Si atom-bonded alkoxyl gps. per molecule, (B) Al chelate cpds. of formula $Al.X_n.Y_{3-n}$ (I), (C) chelate ligand coordination cpds. and opt. (D) ≥ 1 of (a) hydrolysis prod. of cpds. of formula $Ra1Rb2SiZ4-(a+b)$ (II), and (b) polyfunctional epoxy cpds.

X is lower alkoxyl, Y is ligand formed from $M1COCH_2COM_2$ and $M3COCH_2COOM_4$; (M1-4 are lower alkyl. n is 0.1 or 2; R1 and R2 are alkyl, alkenyl, aryl, methacryloxypropyl or halogenated alkyl; Z is alkoxy or acyloxy; a and b are 0, 1 or 2, and $a+b = 0, 1$ or 2).

Pref. (II) includes, methyl silicate, i-propyl silicate, methyl trimethoxysilane, vinyltriethoxysilane. (C) includes acetylacetone, methyl acetoacetate, oxalic acid. Component (b) includes polyglycidyl ethers and polyglycidyl esters.

The compsns. have excellent flexibility dyeing property and durability.

DERWENT-CLASS: A60 A82 E19 G02 P81

CPI-CODES: A06-A00E1; A12-B01C; E05-B03; E05-E01; E10-C02D; E10-F02C; G02-A01A;

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TIX:

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ABTX:

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TTX:

SCRATCH RESISTANCE COATING COMPOSITION COMPRISE HYDROLYSIS
PRODUCT EPOXY
CONTAIN SILANE COMPOUND ALUMINIUM CHELATE LIGAND COMPOUND
ORGANO SILICON
COMPOUND EPOXY COMPOUND